CIVIL-TECH CONSULTANTS AND ENGINEERS

Building & Highway Material Testing Laboratory

NABL - Accredited Laboratory as per ISO / IEC-17025 : 2005

Job No.: CTCE/BBMP/W.No.08/MM/CEMENT/2014-15

Date: 10.07.2014

TEST REPORT

CLIENT	:	**Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.
AGENCY	:	**Mr. Murali Mohan,** Contractor, Bangalore.
NAME OF THE WORK	:	Construction of Compound Wall and Balance Work and other Civil works in Ward No.08, Kodigehalli, BBMP, Bangalore.
REFERENCE	:	AEE/KO/(WO)/573/2014-15 Dated: 08.07.2014
SAMPLE ID	:	Cement
SAMPLES SUPPLIED BY	:	AGENCY

The results of the tests conducted on the cement sample are as follows:

Sl.No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-1989
1	a) Initial Setting Time	IS-4031 (Part -5)	130 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5)	475 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part 3) by the Le-Chatelier method	1 mm	Not more than 10 mm
3	Standard Consistency	IS-4031 (Part -4)	26.00 %	-

Note:

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⇒ The results indicated above are based on the tests carried out on the samples received in the laboratory.

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Job No.: CTCE/BBMP/W.No.08/MM/SAND/2014-15 : 10.07.2014

TEST REPORT ON FINE AGGREGATES (SAND)
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Murali Mohan,** Contractor, Bangalore.

Name of Work : Construction of Compound Wall and Balance Work and other Civil works in Ward No.08, Kodigehalli, BBMP, Bangalore.

Reference : AEE/KO/(WO)/573/2014-15 Dated: 08.07.2014

Date of Testing : 10.07.2014

Material : Sand Total Wt. of Aggregates in gms **2000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits For Zone-II
10	0	0	0	100	100
4.75	106	5.30	5.30	94.7	90-100
2.36	223	11.15	16.45	83.6	75-100
1.18	518	25.90	42.35	57.7	55-90
600 Micron	405	20.25	62.60	37.4	35-59
300 Micron	488	24.40	87.00	13.0	8-30
150 Micron	206	10.30	97.30	2.7	0-10

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Job No.: CTCE/BBMP/W.No.08/MM/AGG/2014-15 : 10.07.2014

TEST REPORT ON COARSE AGGREGATES
IS 383-1970 (RA- 2002)

Client : **Asst. Executive Engineer,** Kodigehalli Sub Division, BBMP, Bangalore.

Agency : **Mr. Murali Mohan,** Contractor, Bangalore.

Name of Work : Construction of Compound Wall and Balance Work and other Civil works in Ward No.08, Kodigehalli, BBMP, Bangalore.

Reference : AEE/KO/(WO)/573/2014-15 Dated: 08.07.2014

Date of Testing : 10.07.2014

Material : 40mm Aggregates

Total Wt. of Aggregates in gms **26000**

Is Sieve Size in mm	Weight Retained (gm)	Retained Weight in %	Cumulative Retained Weight in %	Cumulative Weight Passing in %	Spec.Limits
80	0	0	0	100	100
40	995	3.83	3.83	96.17	95-100
20	15845	60.94	64.77	35.23	30-70
10	6150	23.65	88.42	11.58	10-35
4.75	2580	9.92	98.35	1.65	0-5

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Job No.: CTCE/BBMP/W.No.08/MM/CUBE/2014-15

15.08.2014

TEST REPORT ON CONCRETE CUBES

Client	: **Asst. Executive** Engineer, Kodigehalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. Murali Mohan,** Contractor, Bangalore.
Name of the work	: Construction of Compound Wall and Balance Work and other Civil works in Ward No.08, Kodigehalli, BBMP, Bangalore.
Reference	: AEE/KO/(WO)/573/2014-15 Dated: 08.07.2014
Sample ID	: Pavement Concrete
Size of cubes	: 150mmx150mmx150mm
Cross Sectional Area	: 22500 mm^2
Technical Reference	: IS: 516-1959 (Reaffirmed 2008)
Grade of Concrete	: M_{20}
Compressive Strength as on	: 28^{th} day

Sl.No.	Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	18.07.2014	15.08.2014	8.257	492.6	21.89
2	18.07.2014	15.08.2014	8.394	508.7	22.61
3	18.07.2014	15.08.2014	8.482	524.3	23.30

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